Experiment Number: 20303 - 05

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 12/12/2011 **AVERAGE SEVERITY GRADES[b]**

Vinylidene chloride

CAS Number: 75-35-4

F1_R2

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

Time Report Requested: 09:47:55

Species/Strain: RATS/F 344/N

Test Type: CHRONIC

C20303 **NTP Study Number:**

05/09/2008 Lock Date:

ALL Cage Range:

Route: RESPIRATORY EXPOSURE WHOLE BODY

Date Range: ALL

Reasons For Removal: ALL

Removal Date Range: ALL

Include ALL **Treatment Groups:**

Study Gender: Both

TDMSE Version: 2.5.0.0_004

PWG Approval Date: NONE

Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Disposition Summary					
Animals Initially In Study	50	50	50	50	
Early Deaths					
Moribund Sacrifice	21	15	23	27	
Natural Death	4	8	5	4	
Survivors					
Terminal Sacrifice	25	27	22	19	
Animals Examined Microscopically	50	50	50	50	
ALIMENTARY SYSTEM					
Esophagus	(50)	(49)	(49)	(50)	
Hyperplasia, Squamous	()	(10)	(15)	1 [3.0]	
Intestine Large, Cecum	(48)	(44)	(45)	(46)	
Inflammation, Acute	1 [4.0]	1 [3.0]	,	(
Necrosis	1 [3.0]				
Arteriole, Inflammation			1 [1.0]		
Intestine Large, Colon	(47)	(46)	(47)	(48)	
Arteriole, Inflammation	,	,	1 [1.0]	,	
Intestine Large, Rectum	(46)	(47)	(46)	(49)	
Thrombosis	, ,	, ,	1 [2.0]	, ,	
Intestine Small, Duodenum	(47)	(45)	(45)	(49)	
Intestine Small, Ileum	(47)	(45)	(45)	(47)	
Intestine Small, Jejunum	(47)	(43)	(45)	(47)	
Liver	(50)	(50)	(50)	(50)	
Angiectasis		2 [2.0]			
Basophilic Focus	15	7	5	5	
Clear Cell Focus	22	23	19	15	
Cyst			1 [2.0]		
Degeneration, Cystic	2 [2.0]	5 [2.8]	7 [1.9]	12 [2.1]	
Eosinophilic Focus	3	6	7	5	
Fatty Change, Diffuse	4 [2.0]	19 [1.7]	18 [1.7]	26 [2.0]	
Hepatodiaphragmatic Nodule	1	1	1	5	
Inflammation, Acute				1 [2.0]	
Inflammation, Chronic	28 [1.0]	46 [1.2]	46 [1.3]	44 [1.9]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Inflammation, Chronic Active	1 [1.0]				
Mixed Cell Focus	1	1	8	6	
Necrosis	2 [2.5]	6 [2.8]	8 [2.6]	6 [2.3]	
Bile Duct, Hyperplasia	38 [1.3]	23 [1.1]	16 [1.3]	14 [1.4]	
Bile Duct, Inflammation, Suppurative			1 [4.0]		
Mesentery	(16)	(15)	(21)	(23)	
Inflammation, Chronic Active	2 [2.0]	, ,	1 [2.0]	, ,	
Fat, Necrosis	13 [2.0]	10 [2.0]	14 [2.0]	12 [2.0]	
Pancreas	(50)	(50)	(50)	(49)	
Atrophy	21 [2.0]	16 [2.1]	25 [1.9]	20 [1.6]	
Basophilic Focus	1				
Hyperplasia	4 [2.3]	5 [2.0]	2 [2.5]	7 [2.1]	
Inflammation, Chronic Active			1 [4.0]	1 [3.0]	
Salivary Glands	(50)	(50)	(50)	(50)	
Atrophy		1 [2.0]			
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Hyperplasia, Squamous		2 [2.0]	2 [2.0]	1 [2.0]	
Inflammation, Chronic Active		2 [2.0]			
Mineralization	1 [3.0]				
Ulcer	4 [3.3]	3 [2.3]	1 [2.0]	6 [3.3]	
Stomach, Glandular	(49)	(50)	(49)	(50)	
Mineralization	1 [3.0]		1 [4.0]		
Necrosis			3 [1.0]	3 [1.3]	
Ulcer			1 [3.0]	1 [3.0]	
Tongue	(0)	(1)	(0)	(2)	
Hyperplasia, Squamous				2 [2.5]	
Tooth	(1)	(0)	(0)	(0)	
Dysplasia	1 [3.0]				
CARDIOVASCULAR SYSTEM					
Blood Vessel	(1)	(0)	(1)	(0)	
Aorta, Mineralization	1 [3.0]		1 [3.0]		
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	42 [1.6]	41 [1.6]	39 [1.6]	35 [1.5]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride **CAS Number:** 75-35-4 Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Inflammation, Chronic Active		1 [3.0]			
Mineralization	1 [3.0]				
Thrombosis	3 [2.3]	3 [2.3]	6 [3.0]	8 [2.6]	
ENDOCRINE SYSTEM					
Adrenal Cortex	(49)	(50)	(49)	(50)	
Hyperplasia	26 [2.0]	27 [2.0]	27 [2.0]	27 [2.0]	
Hypertrophy	1 [2.0]	2 [2.0]	2 [2.0]	4 [2.0]	
Necrosis		2 [2.5]			
Adrenal Medulla	(49)	(50)	(48)	(50)	
Hyperplasia	25 [2.2]	22 [2.2]	17 [1.9]	29 [2.3]	
Bilateral, Hyperplasia	• •		1 [3.0]	• •	
Islets, Pancreatic	(50)	(50)	(50)	(49)	
Hyperplasia	1 [3.0]	3 [3.0]	3 [2.7]	3 [2.3]	
Parathyroid Gland	(50)	(49)	(47)	(45)	
Hyperplasia	1 [3.0]	2 [2.5]	1 [2.0]	2 [2.0]	
Pituitary Gland	(50)	(49)	(49)	(50)	
Angiectasis	,	, ,	` ,	1 [2.0]	
Pars Distalis, Angiectasis	2 [2.0]			1 [2.0]	
Pars Distalis, Hemorrhage		1 [3.0]			
Pars Distalis, Hyperplasia	10 [2.6]	13 [2.4]	14 [2.5]	9 [2.2]	
Pars Intermedia, Angiectasis	1 [2.0]				
Pars Intermedia, Hyperplasia	1 [2.0]				
Thyroid Gland	(50)	(49)	(49)	(48)	
C-cell, Hyperplasia	15 [1.1]	16 [1.3]	19 [1.3]	19 [1.1]	
Follicular Cell, Hyperplasia	2 [2.0]		2 [2.5]	1 [1.0]	
GENERAL BODY SYSTEM					
Peritoneum	(0)	(2)	(4)	(3)	
Mesothelium, Hyperplasia	(0)	1 [1.0]	(*/	(5)	
Tissue NOS	(0)	(0)	(0)	(1)	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
GENITAL SYSTEM					
Coagulating Gland	(0)	(0)	(0)	(3)	
Hyperplasia				2 [3.0]	
Inflammation, Suppurative				1 [3.0]	
Epididymis	(50)	(50)	(50)	(50)	
Degeneration				1 [2.0]	
Granuloma Sperm		1 [3.0]			
Hyperplasia, Mesothelium		3 [1.0]	1 [1.0]		
Penis	(0)	(0)	(1)	(0)	
Inflammation, Suppurative	, ,	, ,	1 [4.0]	,	
Preputial Gland	(50)	(49)	(49)	(50)	
Hyperplasia	1 [2.0]	1 [2.0]	, ,	, ,	
Prostate	(50)	(50)	(50)	(50)	
Hyperplasia	5 [1.8]	4 [2.5]	7 [1.9]	5 [2.0]	
Inflammation, Suppurative	4 [2.0]	5 [2.0]	9 [2.3]	8 [3.0]	
Seminal Vesicle	(48)	(50)	(48)	(48)	
Hyperplasia	,	,	1 [2.0]	,	
Testes	(50)	(50)	(50)	(50)	
Atrophy	9 [3.1]	10 [3.7]	13 [3.3]	4 [3.0]	
Hemorrhage	1 [2.0]	1 [1.0]			
Hyperplasia, Mesothelium		2 [1.0]			
Arteriole, Inflammation		1 [3.0]	1 [1.0]		
Interstitial Cell, Hyperplasia	4 [1.3]	4 [1.5]	6 [1.3]	3 [1.0]	
Tunic, Hyperplasia		2 [1.0]	2 [1.0]	2 [1.0]	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(49)	(49)	(48)	(49)	
Hyperplasia, Reticulum Cell	1 [4.0]	('-)	(/	\ -/	
Lymph Node	(6)	(4)	(9)	(7)	
Pancreatic, Congestion	(-)	(- /	1 [2.0]	` '	
Pancreatic, Hyperplasia, Lymphoid	1 [2.0]		r -1	1 [1.0]	
Pancreatic, Infiltration Cellular, Histiocyte	[]		1 [2.0]	r - 1	
Lymph Node, Bronchial	(8)	(9)	(9)	(9)	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Vinylidene chloride

CAS Number: 75-35-4

Species/Strain: RATS/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

Experiment Number: 20303 - 05

Test Type: CHRONIC

Time Report Requested: 09:47:55 **First Dose M/F:** 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Congestion			1 [2.0]		
Ectasia		1 [3.0]	2 [3.0]		
Hyperplasia, Lymphoid	1 [2.0]				
Infiltration Cellular, Histiocyte				1 [3.0]	
Lymph Node, Mandibular	(1)	(1)	(1)	(0)	
Lymph Node, Mediastinal	(28)	(21)	(24)	(30)	
Congestion			1 [3.0]		
Ectasia	1 [2.0]				
Hyperplasia, Lymphoid	2 [2.5]		2 [2.0]	2 [2.5]	
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	
Congestion			1 [2.0]		
Ectasia				1 [3.0]	
Hyperplasia, Lymphoid	1 [2.0]		1 [2.0]	1 [2.0]	
Inflammation, Granulomatous				1 [3.0]	
Spleen	(50)	(50)	(50)	(50)	
Fibrosis	3 [2.3]		2 [2.0]	4 [2.8]	
Hematopoietic Cell Proliferation	3 [2.3]	1 [2.0]	1 [4.0]		
Hyperplasia, Lymphoid				1 [2.0]	
Hyperplasia, Stromal	1 [3.0]				
Necrosis		1 [2.0]	2 [2.5]	2 [2.5]	
Capsule, Hyperplasia			1 [1.0]		
Thymus	(42)	(43)	(41)	(44)	
Infiltration Cellular, Polymorphonuclear				1 [3.0]	
INTEGUMENTARY SYSTEM		,			
Mammary Gland	(36)	(29)	(24)	(32)	
Hyperplasia		1 [2.0]			
Skin	(50)	(50)	(49)	(50)	
Cyst Epithelial Inclusion	4 [3.0]	2	2 [2.0]		
Hyperkeratosis		1 [3.0]			
Hyperplasia, Squamous	1 [1.0]				
Inflammation, Acute			1 [3.0]		
Inflammation, Chronic Active	2 [4.0]		1 [4.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Skeletal Muscle	(3)	(4)	(7)	(11)	
NERVOUS SYSTEM					<u> </u>
Brain	(50)	(50)	(50)	(50)	
Hemorrhage	1 [2.0]	()	,	, ,	
Peripheral Nerve	(2)	(0)	(1)	(0)	
Spinal Cord	(2)	(0)	(1)	(0)	
RESPIRATORY SYSTEM					
Larynx	(50)	(49)	(49)	(49)	
Inflammation, Chronic Active	1 [2.0]	1 [2.0]	, ,	1 [3.0]	
Metaplasia, Squamous				1 [2.0]	
Lung	(50)	(50)	(50)	(50)	
Foreign Body	1				
Inflammation, Acute		1 [4.0]			
Inflammation, Chronic Active	2 [2.5]		1 [1.0]		
Metaplasia, Osseous				1 [2.0]	
Mineralization	1 [3.0]		1 [2.0]		
Thrombosis	1 [2.0]	1 [3.0]	2 [1.5]		
Alveolar Epithelium, Hyperplasia	7 [1.1]	18 [1.5]	14 [1.6]	14 [2.3]	
Alveolar Epithelium, Metaplasia, Squamous			1 [2.0]		
Alveolar Epithelium, Metaplasia, Mucous			1 [2.0]		
Mediastinum, Inflammation, Granulomatous	1 [3.0]				
Nose	(49)	(50)	(50)	(50)	
Foreign Body	2	2	2	5	
Hyperplasia				1 [2.0]	
Inflammation, Acute	2 [2.0]				
Inflammation, Chronic Active	9 [1.2]	36 [2.0]	45 [2.7]	48 [3.2]	
Thrombosis	4 [2.3]	4 [3.0]	11 [3.3]	7 [2.7]	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Vinylidene chloride **CAS Number:** 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

					<u> </u>
FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Olfactory Epithelium, Metaplasia, Respiratory	3 [1.0]	49 [2.5]	49 [3.2]	48 [3.5]	
Olfactory Epithelium, Metaplasia, Squamous			1 [2.0]	5 [1.2]	
Respiratory Epithelium, Hyperplasia	5 [1.6]	8 [1.5]	22 [2.5]	31 [2.3]	
Respiratory Epithelium, Metaplasia, Squamous			1 [2.0]	3 [2.0]	
Turbinate, Atrophy		50 [2.2]	50 [3.2]	50 [3.8]	
Turbinate, Hyperostosis		49 [2.1]	50 [2.6]	50 [2.9]	
Pleura	(0)	(1)	(0)	(1)	
Hyperplasia				1 [2.0]	
Infiltration Cellular, Mononuclear Cell				1 [3.0]	
Trachea	(50)	(49)	(49)	(48)	
SPECIAL SENSES SYSTEM					
Eye	(48)	(48)	(47)	(49)	
Cataract	3 [3.0]	1 [2.0]	1 [1.0]	1 [4.0]	
Degeneration		1 [4.0]		1 [4.0]	
Cornea, Inflammation, Acute	1 [3.0]	1 [2.0]			
Cornea, Inflammation, Chronic Active	1 [3.0]			1 [1.0]	
Retina, Atrophy	2 [3.5]		1 [2.0]	1 [4.0]	
Harderian Gland	(50)	(49)	(48)	(49)	
Degeneration	()	,	,	1 [3.0]	
Hyperplasia		2 [1.0]	1 [3.0]		
Zymbal's Gland	(0)	(1)	(0)	(0)	
URINARY SYSTEM					
Kidney	(50)	(50)	(49)	(50)	
Cyst	, ,	1 [2.0]	, ,	` '	
Hydronephrosis		1 [3.0]			
Infarct			1 [3.0]	2 [2.0]	
Inflammation, Suppurative		2 [2.0]	1 [4.0]	2 [2.5]	
Mineralization	1 [3.0]				
Nephropathy	50 [2.2]	47 [2.4]	47 [2.4]	47 [2.2]	
Thrombosis		1 [3.0]			
Renal Tubule, Hyperplasia		1 [2.0]	1 [1.0]	1 [4.0]	
, 21 1		3	L -3	L - 1	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 20303 - 05

Species/Strain: RATS/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: CHRONIC

Experiment Number: 20303 - 05 P18: INC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: CHRONIC

Species/Strain: RATS/F 344/N

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 12/12/2011 AVERAGE SEVERITY GRADES[b]

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55

First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

FISCHER 344 RATS MALE	Control	25 ppm	50 ppm	100 ppm	
Renal Tubule, Necrosis			2 [1.5]		
Transitional Epithelium, Hyperplasia			1 [3.0]	2 [1.5]	
Urinary Bladder	(49)	(50)	(49)	(50)	
Inflammation, Acute	. ,	` ,	, ,	1 [2.0]	
Inflammation, Chronic Active			1 [2.0]		
Transitional Epithelium, Hyperplasia			1 [3.0]	2 [2.0]	

*** END OF MALE ***

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

EXPOSURE WHOLE BODY CAS N

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 **First Dose M/F:** 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
Disposition Summary				
Animals Initially In Study	50	50	50	50
Early Deaths				
Moribund Sacrifice	19	22	18	28
Natural Death	1	2	2	3
Survivors				
Natural Death			1	
Terminal Sacrifice	30	26	29	19
Animals Examined Microscopically	50	50	50	50
ALIMENTARY SYSTEM				
Esophagus	(50)	(50)	(50)	(50)
Intestine Large, Cecum	(49)	(48)	(48)	(48)
Intestine Large, Colon	(50)	(49)	(48)	(50)
Cyst			1 [3.0]	
Intestine Large, Rectum	(49)	(50)	(49)	(49)
Intestine Small, Duodenum	(50)	(50)	(49)	(50)
Intestine Small, Ileum	(50)	(48)	(49)	(49)
Intestine Small, Jejunum	(50)	(48)	(49)	(49)
Liver	(50)	(50)	(50)	(50)
Angiectasis	2 [1.5]	4 [1.8]	4 [1.8]	5 [2.0]
Basophilic Focus	46	41	32	29
Clear Cell Focus	15	19	22	18
Degeneration, Cystic		2 [3.0]	4 [2.3]	7 [2.7]
Eosinophilic Focus	6	11	7	16
Fatty Change	1 [2.0]			
Fatty Change, Focal	2	1	3	
Fatty Change, Diffuse	19 [1.2]	30 [1.7]	26 [1.7]	30 [2.0]
Fibrosis, Focal		1 [3.0]		
Hepatodiaphragmatic Nodule	3	6	4	5
Inflammation, Chronic	42 [1.0]	48 [1.4]	49 [1.4]	48 [2.1]
Mixed Cell Focus	4	16	12	13
Necrosis		3 [1.7]	5 [2.2]	11 [1.8]
Bile Duct, Hyperplasia	7 [1.1]		1 [2.0]	6 [1.3]

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Vinylidene chloride

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

POSURE WHOLE BODY CAS Number: 75-35-4

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm	
Mesentery	(13)	(20)	(23)	(24)	
Inflammation, Chronic Active		1 [2.0]			
Fat, Hemorrhage			1 [2.0]		
Fat, Necrosis	13 [2.0]	19 [2.0]	22 [2.0]	23 [2.0]	
Oral Mucosa	(0)	(1)	(0)	(1)	
Pharyngeal, Hyperplasia, Squamous				1 [3.0]	
Pancreas	(50)	(50)	(50)	(50)	
Basophilic Focus	1				
Inflammation, Granulomatous			1 [2.0]		
Acinus, Atrophy	9 [1.2]	13 [1.5]	11 [2.1]	11 [1.3]	
Acinus, Hyperplasia		1 [1.0]	3 [1.7]	3 [2.0]	
Salivary Glands	(50)	(50)	(50)	(50)	
Atrophy				1 [2.0]	
Basophilic Focus			2	1	
Stomach, Forestomach	(50)	(50)	(50)	(50)	
Hyperplasia, Squamous		1 [3.0]	2 [1.5]	2 [2.5]	
Necrosis		1 [2.0]			
Ulcer	3 [2.0]	1 [2.0]	1 [2.0]	3 [3.3]	
Stomach, Glandular	(50)	(50)	(50)	(50)	
Mineralization		1 [3.0]			
Necrosis	1 [2.0]	4 [2.0]	1 [2.0]	6 [1.5]	
Tongue	(1)	(0)	(0)	(0)	
CARDIOVASCULAR SYSTEM					
Blood Vessel	(1)	(1)	(0)	(0)	
Heart	(50)	(50)	(50)	(50)	
Cardiomyopathy	33 [1.2]	34 [1.4]	32 [1.3]	27 [1.3]	
Thrombosis		1 [3.0]		1 [3.0]	
Pericardium, Fibrosis				1 [2.0]	
ENDOCRINE SYSTEM					
Adrenal Cortex	(50)	(50)	(50)	(50)	
Degeneration, Cystic				1 [3.0]	

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Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm	
Hematopoietic Cell Proliferation		2 [3.0]			
Hyperplasia	30 [2.1]	28 [2.0]	20 [2.0]	25 [2.1]	
Hypertrophy	7 [2.3]	3 [2.0]	1 [2.0]	4 [2.0]	
Metaplasia, Osseous				1 [2.0]	
Necrosis				1 [2.0]	
Vacuolization Cytoplasmic	1 [3.0]				
Adrenal Medulla	(50)	(50)	(50)	(49)	
Hyperplasia	7 [2.0]	10 [2.0]	9 [1.8]	12 [2.1]	
Islets, Pancreatic	(50)	(50)	(50)	(50)	
Hyperplasia		1 [3.0]			
Parathyroid Gland	(49)	(46)	(45)	(47)	
Angiectasis			1 [4.0]		
Hyperplasia	1 [3.0]				
Pituitary Gland	(50)	(49)	(49)	(49)	
Pars Distalis, Angiectasis	4 [2.0]	4 [2.8]	4 [2.3]	1 [3.0]	
Pars Distalis, Hyperplasia	12 [2.5]	6 [2.5]	12 [2.4]	11 [2.4]	
Thyroid Gland	(50)	(50)	(48)	(50)	
C-cell, Hyperplasia	35 [1.3]	30 [1.7]	32 [1.3]	27 [1.3]	
Follicular Cell, Hyperplasia		1 [2.0]		1 [2.0]	
GENERAL BODY SYSTEM					
Peritoneum Inflammation, Acute	(0)	(1) 1 [3.0]	(1)	(1)	
Mesothelium, Hyperplasia		1 [3.0]		1 [1.0]	
GENITAL SYSTEM					
	((45)	()	(12)	
Clitoral Gland	(47)	(48)	(45)	(48)	
Hyperplasia		4 [2.0]	1 [2.0]	1 [2.0]	
Inflammation, Chronic Active	(==)	1 [2.0]	(5.5)	(50)	
Ovary	(50)	(50)	(50)	(50)	
Cyst			1 [3.0]	1 [3.0]	
Bursa, Dilatation	5 [1.8]	11 [3.1]	17 [3.1]	24 [3.2]	
Follicle, Cyst			1 [2.0]		

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 **First Dose M/F:** 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm	
Interstitial Cell, Hyperplasia	1 [3.0]				
Periovarian Tissue, Cyst			1 [2.0]		
Uterus	(50)	(50)	(50)	(50)	
Inflammation, Chronic Active	1 [4.0]				
Endometrium, Hyperplasia, Cystic	1 [1.0]	1 [3.0]	1 [4.0]	1 [3.0]	
Vagina	(0)	(2)	(0)	(1)	
HEMATOPOIETIC SYSTEM					
Bone Marrow	(50)	(50)	(50)	(50)	
Hyperplasia, Reticulum Cell	1 [4.0]	,	,	()	
Lymph Node	(2)	(2)	(4)	(9)	
Deep Cervical, Hemorrhage	, ,	, ,	1 [3.0]	. ,	
Deep Cervical, Hyperplasia, Lymphoid			1 [2.0]		
Lymph Node, Bronchial	(4)	(7)	(4)	(10)	
Congestion	1 [3.0]				
Hyperplasia, Lymphoid		1 [2.0]		1 [2.0]	
Infiltration Cellular, Histiocyte				1 [2.0]	
Lymph Node, Mandibular	(2)	(0)	(1)	(4)	
Lymph Node, Mediastinal	(33)	(26)	(29)	(38)	
Ectasia	1 [3.0]			1 [1.0]	
Hemorrhage	1 [3.0]		1 [2.0]		
Hyperplasia, Lymphoid	1 [2.0]	1 [2.0]			
Hyperplasia, Plasma Cell		1 [2.0]			
Lymph Node, Mesenteric	(50)	(50)	(50)	(50)	
Congestion	1 [3.0]				
Hyperplasia, Lymphoid	1 [2.0]	1 [4.0]		1 [2.0]	
Inflammation, Granulomatous				1 [4.0]	
Spleen	(50)	(50)	(50)	(50)	
Fibrosis	2 [2.5]	1 [2.0]	2 [2.0]	4 [2.8]	
Hematopoietic Cell Proliferation			2 [3.0]	1 [4.0]	
Hemorrhage		1 [2.0]			
Hyperplasia, Lymphoid		1 [3.0]			
Inflammation, Granulomatous		1 [4.0]			
Inflammation, Acute		1 [2.0]			

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

SPIRATORT EXPOSURE WHOLE BOD

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm	
Necrosis				3 [2.7]	
Thymus	(46)	(45)	(42)	(42)	
INTEGUMENTARY SYSTEM					
Mammary Gland	(50)	(50)	(50)	(50)	
Galactocele	1 [2.0]	2 [2.5]	2 [3.0]		
Hyperplasia	1 [2.0]	1 [2.0]			
Skin	(50)	(50)	(50)	(50)	
Cyst Epithelial Inclusion	1 [3.0]				
Hyperkeratosis			1 [2.0]		
Inflammation, Chronic Active		1 [3.0]	1 [3.0]	1 [3.0]	
MUSCULOSKELETAL SYSTEM					
Bone	(50)	(50)	(50)	(50)	
Hyperostosis			1 [3.0]		
Skeletal Muscle	(1)	(2)	(3)	(0)	
Fibrosis			1 [3.0]		
NERVOUS SYSTEM					
Brain	(50)	(50)	(50)	(50)	
Hydrocephalus		1 [2.0]			
Necrosis				1 [2.0]	
RESPIRATORY SYSTEM					
Larynx	(50)	(50)	(50)	(50)	
Inflammation, Chronic Active	2 [3.0]	2 [3.0]	1 [2.0]	. ,	
Metaplasia, Squamous	1 [1.0]	3 [2.3]			
Lung	(50)	(50)	(50)	(50)	
Hemorrhage			1 [1.0]		

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Test Type: CHRONIC
Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: RATS/F 344/N

Experiment Number: 20303 - 05

Vinylidene chloride CAS Number: 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm	
Inflammation, Chronic Active	1 [1.0]	1 [1.0]	1 [1.0]		
Thrombosis				1 [1.0]	
Alveolar Epithelium, Hyperplasia	12 [1.3]	13 [1.3]	13 [1.3]	8 [1.6]	
Alveolar Epithelium, Metaplasia, Squamous	1 [1.0]		2 [1.5]	2 [1.5]	
Alveolus, Infiltration Cellular, Histiocyte			2 [1.5]	1 [1.0]	
Bronchiole, Hyperplasia		2 [2.0]	1 [2.0]	1 [1.0]	
Nose	(50)	(50)	(50)	(50)	
Foreign Body	2	4	, ,	5	
Inflammation, Acute	1 [3.0]				
Inflammation, Chronic Active	7 [1.4]	45 [1.8]	46 [2.0]	46 [2.9]	
Polyp, Inflammatory				3 [3.0]	
Thrombosis		3 [2.3]	2 [2.0]	7 [2.3]	
Olfactory Epithelium, Metaplasia, Respiratory	1 [1.0]	50 [2.8]	50 [3.1]	50 [3.6]	
Olfactory Epithelium, Metaplasia, Squamous	1		1 [1.0]	1 [2.0]	
Respiratory Epithelium, Hyperplasia	4 [1.3]	12 [1.6]	14 [1.7]	27 [2.1]	
Respiratory Epithelium, Metaplasia, Squamous	. []	[]	[]	3 [2.3]	
Turbinate, Atrophy		50 [2.8]	50 [3.3]	50 [4.0]	
Turbinate, Hyperostosis		50 [1.9]	50 [2.6]	50 [2.8]	
Pleura	(0)	(1)	(0)	(1)	
Hyperplasia	(=)	(.,	(0)	1 [2.0]	
Infiltration Cellular, Mononuclear Cell				1 [3.0]	
Trachea	(50)	(50)	(50)	(50)	
	(00)	(00)	(00)	(00)	
SPECIAL SENSES SYSTEM					
Eye	(50)	(49)	(50)	(49)	
Cataract	1 [2.0]	1 [3.0]	3 [2.3]	1 [2.0]	
Degeneration	1 [4.0]	3 [4.0]	1 [4.0]		
Cornea, Inflammation, Chronic Active	1 [2.0]				
Retina, Atrophy	1 [2.0]	4 [2.5]	3 [3.0]	2 [2.5]	
Harderian Gland	(50)	(50)	(50)	(50)	
Hyperplasia	2 [2.0]	(/	1 [2.0]	(/	
Inflammation, Chronic	1 [2.0]		. []		
Lacrimal Gland	(0)	(0)	(1)	(1)	
Cytoplasmic Alteration	(-)	(-)	1 [2.0]	(· /	

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 20303 - 05

Species/Strain: RATS/F 344/N

Route: RESPIRATORY EXPOSURE WHOLE BODY

Test Type: CHRONIC

P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH Date Report Requested: 12/12/2011 AVERAGE SEVERITY GRADES[b]

Vinylidene chloride **CAS Number:** 75-35-4

Time Report Requested: 09:47:55 First Dose M/F: 06/06/05 / 06/06/05

Lab: BNW

FISCHER 344 RATS FEMALE	Control	25 ppm	50 ppm	100 ppm
Degeneration				1 [2.0]
Zymbal's Gland	(0)	(0)	(1)	(0)
URINARY SYSTEM				
Kidney	(50)	(50)	(50)	(50)
Fibrosis		1 [2.0]		
Hydronephrosis	1 [2.0]	1 [3.0]		
Hyperplasia, Oncocytic	1 [3.0]	-	1 [1.0]	
Infarct	1 [2.0]	1 [2.0]	-	2 [2.0]
Mineralization		1 [3.0]		· -
Nephropathy	45 [1.5]	40 [1.8]	43 [1.4]	42 [1.3]
Papilla, Necrosis		1 [2.0]		
Renal Tubule, Hyperplasia	1 [2.0]	2 [2.5]		2 [3.0]
Renal Tubule, Necrosis			1 [2.0]	
Urinary Bladder	(50)	(50)	(50)	(50)
Inflammation, Chronic Active	1 [2.0]			

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)